

A photograph of a young child, possibly of African descent, smiling broadly and looking towards the camera. The child is wearing a light blue t-shirt with a colorful graphic on the front. The background is dark and out of focus, showing many small, bright, colorful lights (bokeh) in shades of blue, green, and yellow, suggesting a night festival or a city street at night. The overall mood is joyful and celebratory.

Successful European Public Funding Projects ITEA 19008 Inno4Health

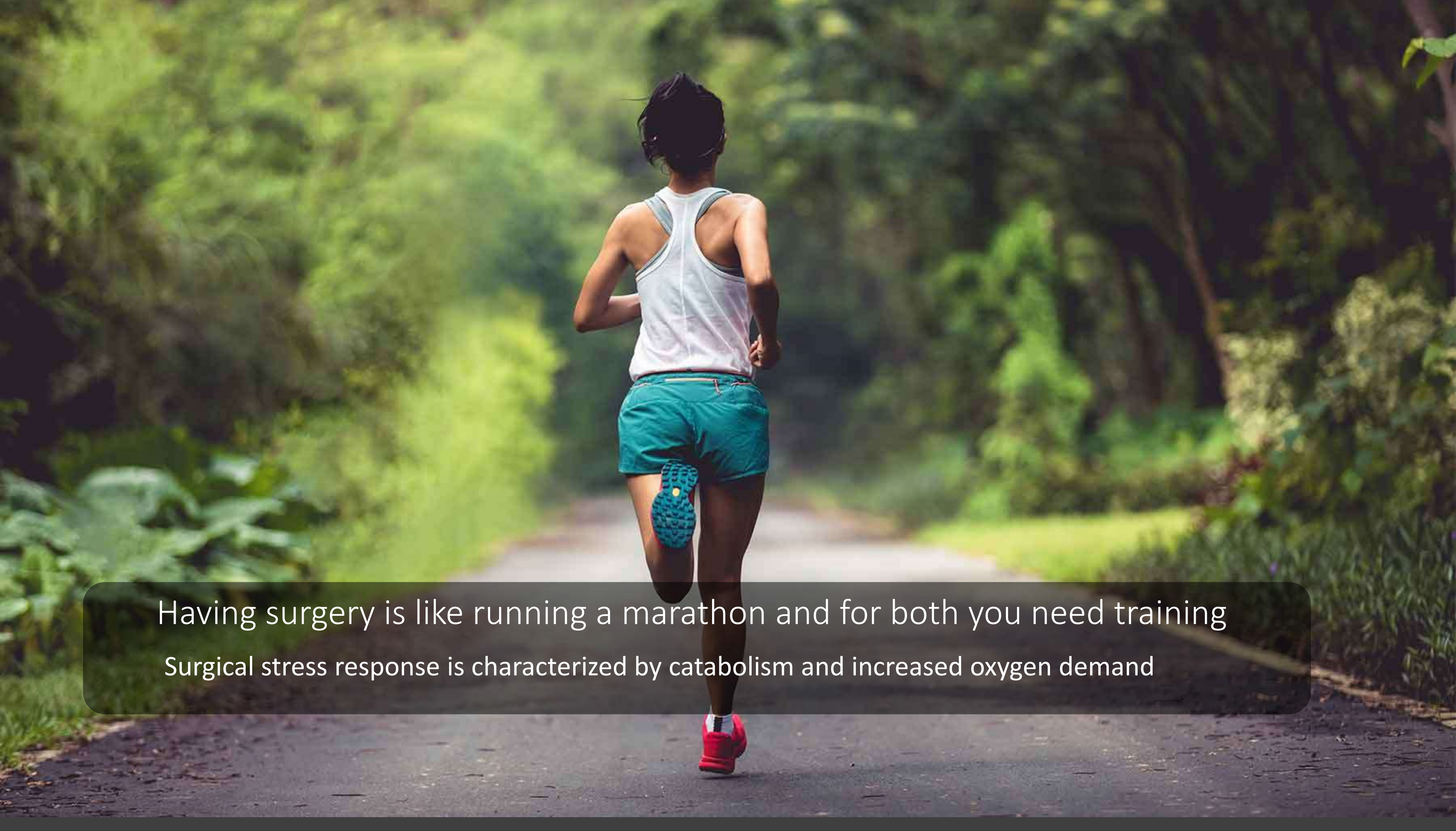
Philips
July 7, 2021

PHILIPS



Building continuous monitoring solutions for preparing individuals to surgery or sport competition

OSF Bijeenkomst 7 Juli 2021
Ad de Beer



Having surgery is like running a marathon and for both you need training
Surgical stress response is characterized by catabolism and increased oxygen demand



Tracking the condition of athletes is essential to guide physical preparation

- Limit maladaptation to training
- Mitigate risks of injuries
- Avoid adverse health events
- Avoid a sudden death

These problematic challenges deriving from the healthcare and sports domains may require solutions that have a lot more in common than it could be thought



Preparing patients to be fit for surgery

Payers – lower healthcare cost savings

Clinicians – less workload and risk of complications

Patients – better health outcome

challenges? If we look at preparing
win-win situation for:
insurance companies would require
clinicians in terms of workload, due
complications **patients** in terms of
improved functional capacity after
physical and mental preparation



Preparing athletes to be fit for sport competition

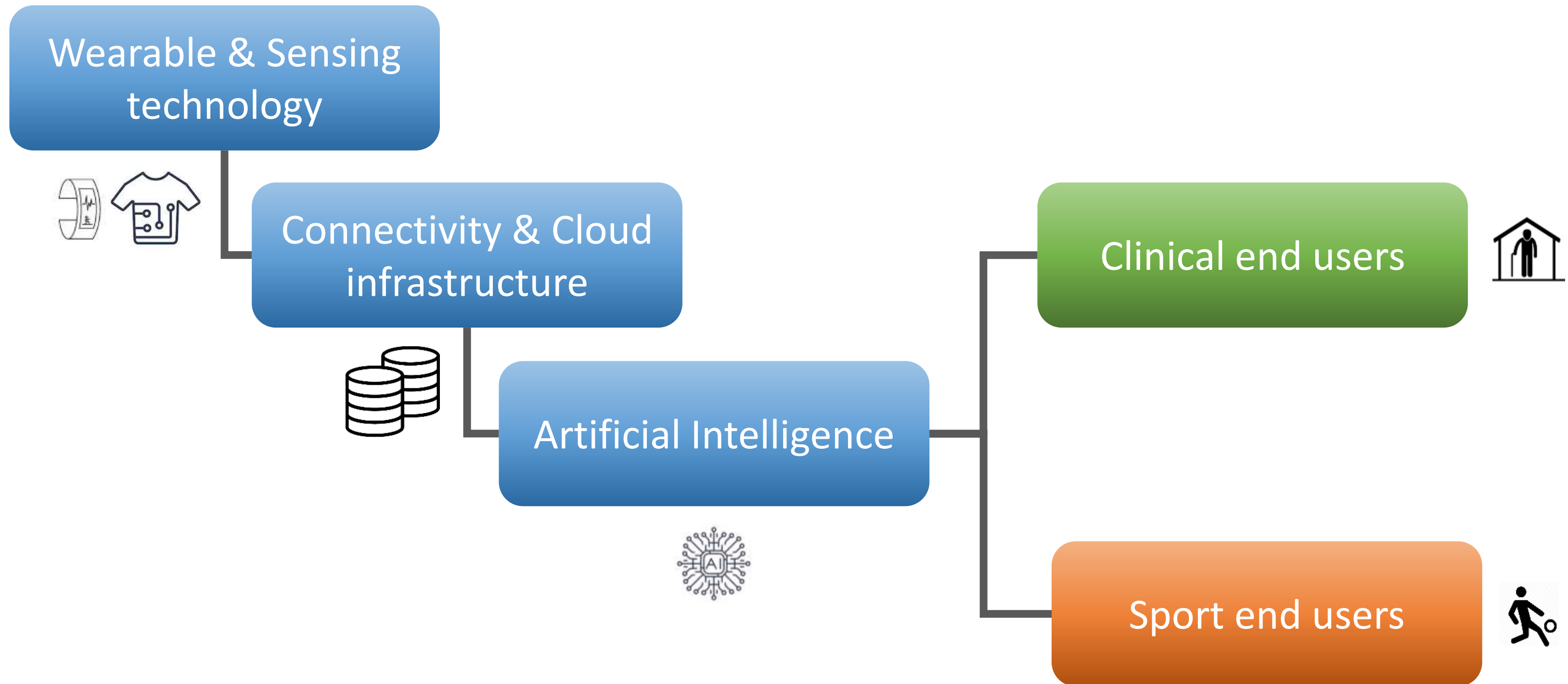
Sport business managers – larger income

Performance coach – better informed decisions

Athletes – lower risk of injury and better training



INNO4HEALTH solution pillars





Use cases

Name	Domain		Leader	Contact
Re-habilitation after orthopaedic surgery	Health	NL/TR	St. Anna Hospital	Walter Van Der Weegen
Pre-habilitation in Bariatric surgery patients	Health	RO	BEIA	Cristina Balaceanu
Screening for Sudden Cardiac Arrest	Health	NL	MMC	Hareld Kemps
Claudication, venous ulcers and diabetic foot patients	Health	PT	ISEP	Luis Conceicao
Holistic preparation for football competition	Sport	NL	PSV / PHILIPS	Luc van Agt
Cognitive preparation of athletes	Sport	LT	LIPSE	Aiste Zemaityte
Management of athletes recovery after injury in team sports	Sport	CA	XCO	Scott Mc. Millan
Personal health monitoring and self-assessment for health prevention, empowerment and management	Health	CA	RideShark	Sharon Lewinson



Pre-habilitation in surgery patients

Current

- Pre-surgery screening based on office tests
- Patient receive generic advise
- After discharge patient not followed

Needs

- Monitoring vitals and functional capacity
- Provide communication & education
- Activity coaching
- Recovery monitoring after surgery



Holistic preparation in Football team players

Current

- During training players are monitored
- Questionnaires during recovery days

Needs

- Remove guesswork
- Measures physical and mental capacity
- Aggregate team data in one place
- Monitoring home and competition
- Fitting athlete's lifestyle



Examples of new business



▲ PSV en Philips werken samen met het St. Anna Ziekenhuis. Clubdokter Wart van Zoest verricht hier onderzoek bij PSV'er Ryan Thomas. © Photo Prestige

PSV en Philips kondigen medische topprimeur aan: Veel beter na te gaan of training topsporters aanslaat



MONITOREN BINNEN EN BUITEN ZIEKENHUIS

De Healthdot sensor meet ademhalingsfrequentie, hartslag, activiteit en lichaamshouding van een patiënt elke vijf minuten gedurende 14 dagen. De data kunnen zonder tussenkomst van een ontvanger (monitoringsrelay) worden verstuurd naar één of meerdere dataplatformen. Via deze platformen van Philips (IntelliVue Guardian of Engage) kunnen zorgverleners hun patiënten binnen en buiten het ziekenhuis monitoren.

Removing the guesswork



TNO innovation
for life



PHILIPS



TU/e



umec



PHILIPS

THUNDERBYTE.AI




St. Anna Ziekenhuis

Visit our website: <https://inno4health.eu/>

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News




Event News

EVENTS & KEYNOTES RELATED TO INNO4HEALTH

UNCATEGORIZED

Project related conferences and trade fairs

<https://inno4health.eu/performance-by-innovative-health-online-congress/>




Event News

EVENTS & KEYNOTES RELATED TO INNO4HEALTH

THE NETHERLANDS

Online Congress TU/e: Performance by Innovative Health

On the 7th of May, students from the Eindhoven University of Technology (partner



Academic Publications

ACADEMIC PUBLICATIONS AS A RESULT OF INNO4HEALTH

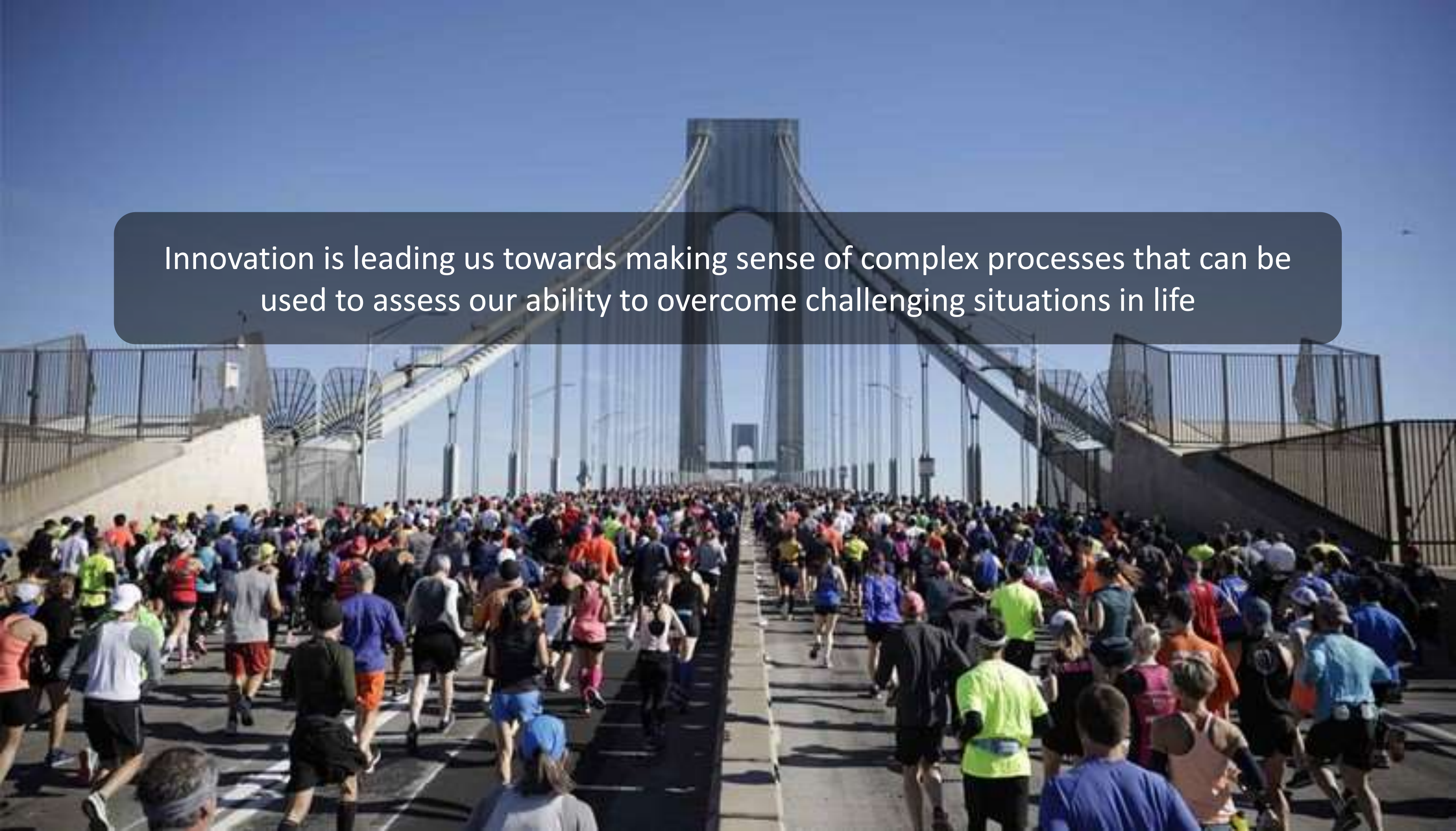
THE NETHERLANDS

ACADEMIC PUBLICATIONS HEALTHCARE

Publication Imec: Paper Sensors 2020, 20(24), 7302

In 2020, Imec submitted a paper and it was

Innovation is leading us towards making sense of complex processes that can be used to assess our ability to overcome challenging situations in life



Sportbizz responsibilities in Inno4Health

- ✓ Business development
- ✓ Market scans
- ✓ Validation
- ✓ Dissemination
- ✓ Expos / Fairs
- ✓ Market entrance strategy for the use cases



PEOPLE WILL FORGET
WHAT YOU SAID,
PEOPLE WILL FORGET
WHAT YOU DID,
BUT PEOPLE WILL
NEVER FORGET
HOW YOU MADE
THEM FEEL

MAYA ANGELOU

